**Curriculum Vitae**

**Date Prepared:** July 25, 2024

**Name:** Changwei Li, MD, PhD, MPH, L.Ac.

Department of Epidemiology

Tulane University School of Public Health and Tropical Medicine

**Office Address:**  1440 Canal Street Suite 2000, New Orleans, LA 70112

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## **Education:**

5/2015-8/2016 **Tulane University School of Public Health and Tropical Medicine**

*Postdoctoral Research Fellow*, Cardiovascular and Kidney Diseases

Department of Epidemiology

8/2011-5/2015 **Tulane University School of Public Health and Tropical Medicine**

*Doctor of Philosophy*, Genetic Epidemiology

Department of Epidemiology

8/2009-5/2011 **Emory University Rollins School of Public Health**

*Master of Public Health*, Global Health

Department of Global Health

7/2007-7/2009 **Beijing Shijitan Hospital**

*Residency*

Department of Acupuncture

9/2002-7/2007 **Peking University Health Science Center**

*Bachelor of Medicine* (M.D. equivalent)

## **Postdoctoral Training:**

5/2015-8/2016 **Tulane University School of Public Health and Tropical Medicine**

*Postdoctoral Research Fellow*, Cardiovascular and Kidney Diseases

Department of Epidemiology

**Short Courses/Workshops:**

January 7-9, 2021 Machine Learning, Statistical Horizons, Remote training

August 15, 2021 OIE-Equity, Diversity, & Inclusion Trainings.

## **Faculty Appointments:**

05/2020 – present: Assistant Professor,

Department of Epidemiology

Tulane University

08/2016 – 05/2020: Assistant Professor

Department of Epidemiology and Biostatistics

University of Georgia

## **Honors and Awards**

2023 *Rising Star Award*, Tulane University

2016 *Annual Council on Hypertension Travel Award,* AHA Hypertension Scientific Sessions

2016 *Finalist for Young Investigator Award*, Southern Translational Education and Research Conference (STaR)

2015 *Dorothy R. LeBlanc Scholarship Award*, Tulane University

2015 *The Dean’s Scholastic Award*, Tulane University

2015 *First Prize of the Delta Omega Eta Chapter Poster Contest*, Tulane University

2015  *Delta Omega Society, Eta Chapter*, Tulane University

2011-13 *Epidemiology Department Scholarship*, Tulane University

2006 *Excellent Medic*, Beijing Shijitan Hospital, Beijing, China

2006 *National Scholarship*, Ministry of Education, Beijing, China

2003-6 *Excellent Medical Student*, Peking University, Beijing, China

2003-5 *Renhe Scholarship*, Renhe Hospital and Peking University, Beijing, China

2004 *Merit Student for Academic Excellence*, Peking University, Beijing, China

2004 *Outstanding Youth*, Peking University, Beijing, China

**Services**

**Departmental and School wise services at Tulane University**

Review admission materials for Masters and Doctoral students: 2020-present

Served as a judge for Delta Omega Poster competition. 2023

Served as a judge for the poster competition of the Dr. Paul K. Whelton 75th Birthday Symposium. 2023

**Professional Memberships**

Council on Epidemiology and Prevention, American Heart Association, 2012-present

American Society of Human Genetics, 2012-present

American Society of Nephrology, 2021-present

**Journal Reviews**

Acupuncture in Medicine (2015-2019);

Addiction (2015-2019);

American Journal of Cardiology (2015-2019);

American Journal of Clinical Nutrition (2018-2023);

AJKD (2023);

Annals of Medicine (2015-2019);

Applied Nursing Research (2015-2019);

Arteriosclerosis, Thrombosis, and Vascular Biology (2021-2023);

BMJ Open (2015-2019);

BMC Complementary and Alternative Medicine (2015-2019);

BMC Public Health (2015-2019);

BMC Pregnancy and Childbirth (2015-2019);

Childhood Obesity (2015-2019);

Circulation (2019);

Circulation Research (2024);

Clinical Chemistry (2019);

Clinical and Experimental Hypertension (2015-2019);

Complementary Therapies in Medicine (2015-2019);

Current Vascular Pharmacology (2015-2019);

Dove Medical Press (2015-2019);

Drug Design, Development and Therapy (2015-2019);

European Journal of Nutrition (2015-2019);

Frontier in Aging (2021);

Frontier in Endocrinology (2021-2023);

Global Health Research and Policy (2015-2019);

Hypertension (2016-2024);

Hindawi Publishing Corporation (2015-2019);

Infectious Disease of Poverty (2015-2019);

Journal of International Medical Research (2015-2019);

International Journal of Epidemiology (2015-2019);

International Journal of Public Health (2015-2019);

International Journal of Obesity (2015-2019);

JAMA Network Open (2019-2024);

Journal of American Heart Association (2019-2024);

Journal of Hypertension (2015-2019);

Journal of Lipid Research (2015-2019);

Journal of Diabetes Research (2015-2019);

Journal of International Medical Research (2015-2019);

Lipids in Health and Disease (2016-2019);

Life science (2015-2019); Nutrition Review (2015-2019);

Nicotine & Tobacco Research (2015-2019);

Nutrition & Metabolism; Obesity (2016-2024);

PLOS One (2015-2019);

Primary Care Diabetes (2015-2019);

Patient Preference and Adherence (2015-2019);

Preventive Medicine (2024);

Psychiatry Research (2020-2024);

Stroke (2024);

Science of the Total Environment (2024)

**Editorial Board/Guest Editor**

Innovation (IF=32); 2020-present

Frontiers in Endocrinology (IF=5.2); 2022-present

Frontiers in Public Health (IF=6.5); 2022-present

Frontiers in Pharmacology (IF=5.99); 2022-present

International Journal of Hypertension (IF=2.4); 2022

Future; 2022-present

**NIH Study Section and Other Scientific Reviews**

NIH, Special Emphasis Panel. July 2024

NIH/NIGMS, Special Emphasis Panel for Centers of Biomedical Research Excellence (CoBRE) Phase 2 Centers (P20). November 2023

AHA Fellowship Award – Member of the Genomics and Translational Biology Fellowship Committee. November 2023

Second Century Early Faculty Independence Award (SCEFIA) - LOI Review Committee Member: May 2023

NIH, Genetics of Health and Disease (GHD) Study Section – Ad hoc member: June 2020

Society for Epidemiologic Research 2019 Annual Meeting - Abstract Reviewer

Georgia Clinical and Translational Science Alliance - pilot study grant proposal reviewer 2019;

**Teaching:**

Course director

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Code** | **Title** | **Term & Year** | **Credit hours** | **Number enrolled** | **Average rating** |
| ***Tulane University provided an average score for each of the 18 evaluation items*** | | | | | |
| EPID 7000 | Department Seminar | Fall 2023 | 1 | 21 | 3.64-4.45\* |
| (1 hour lecture, once per week) | |  |  |  |  |
| *\*Note.* I took over this course in a hurry from a lecturer who suddenly decided to leave Tulane. | | | | | |
| EPID 6290 | Genetic Epidemiology | Fall 2023 | 3 | 6 | -\*\* |
| (3 hours lecture; once per week) | | *\*\*Note.* No score due to low response rate | | | |
|  |  | Fall 2022 | 3 | 11 | 4.4-4.9 |
| SPHL 6060 | Epidemiology for Public Health | Fall 2021 | 3 | 41 | 4.1-4.9 |
| (1.5 hours; twice per week) | |  |  |  |  |
| ***University of Georgia at Athens provided an overall score for each course.*** | | | | | |
| EPID 7020 | Introduction to Epidemiology II | Fall 2016 | 3 | 7 | 4.93 |
| (1.5 hours; twice per week) | | Fall 2017 | 3 | 13 | 4.65 |
|  |  | Spring 2018 | 3 | 19 | 4.12 |
|  |  | Fall 2018 | 3 | 9 | 4.87 |
|  |  | Spring 2019E | 3 | 17 | 2.86\*\*\* |
| \*\*\**Note*. This is an online course | | | | | |
| EPID 8020 | Case-Control Study Design | Spring 2017 | 3 | 8 | 4.99 |
| (1.5 hours, twice per week) | | Spring 2018 | 3 | 14 | 5.00 |
| EPID 8130 | Systematic Reviews and Meta-Analysis | Spring 2019 | 3 | 10 | 4.80 |
| (1.5 hours; twice per week) | |  |  |  |  |

Guest Lecturer SPHL 6060 Epidemiology for Public Health (Tulane University SPHTM, 2023)

Public Health Genomics (Tulane University SPHTM, 2023)

Advanced Epidemiology (Tulane University SPHTM, 2022)

Meta-Analysis (Tulane University SPHTM, 2021)

Genetic Epidemiology (Tulane University SPHTM, 2021)

Intermediate Epidemiology Methods (SPHTM, 2015)

**Academic Advising and Mentoring:**

PhD Committees Chair

1. Eric Gillis, MS, PhD (Awarded May 2018)

Department of Epidemiology, University of Georgia College of Public Health

Dissertation: “*Genomic Studies of Cognitive Function and Alzheimer’s Disease*”

1. Luqi Shen, MS, PhD candidate (Awarded May 2020)

Department of Epidemiology, University of Georgia College of Public Health

Dissertation: “*Genome-Wide Multi-Ethnic Study of Leptin Resistance*”

1. Ruiyuan Zhang, MD, MS, PhD student (Awarded May 2023)

Department of Epidemiology, Tulane University School of Public Health and Tropical Medicine

Dissertation: “*Metabolomics Investigations on the Effect of Lifestyle Factors on Lipid Phenotypes in the Bogalusa Heart Study*”

PhD Dissertation Committee Member

1. Paula Buchanan, MPH (2016-2017)

Department of Communication Studies, University of Georgia

1. Simon Mutembo, MD, MPH, PhD (Awarded May 2019)

Department of Epidemiology & Biostatistics, University of Georgia College of Public Health

Dissertation: “*Disparities in Tuberculosis Incidence and Treatment Outcomes in Rural and Urban Settings in Zambia: Epidemiological Approach for Targeted Tuberculosis Control.*”

1. Samuel Kirimunda, MS, PhD candidate (Awarded May 2020)

Department of Epidemiology & Biostatistics, University of Georgia College of Public Health

Dissertation: “*Using Mycobacterium Tuberculosis Complex Whole Genomes and Novel Biomarkers to Study Tuberculosis Transmission*”

1. Kristen Nalani Knight, MS (Awarded May 2021)

Department of Statistics, University of Georgia

Dissertation: “*Multi-Modal Data Fusion of Imaging Genetics for the Discovery of Alzheimer’s Disease Pathology*”

1. Mengyao Shi, PhD (Awarded May 2021)

Department of Epidemiology, Tulane University School of Public Health and Tropical Medicine

Dissertation: “*Multi-Omics Mechanisms Underlying Blood Pressure and Stroke*”

1. Michael Francis, MS (Awarded May 2023)

Institute of Bioinformatics, University of Georgia

Dissertation: “*Nutrigenetics of polyunsaturated fatty acids and vegetarianism”*

1. Xiao Sun, MS (Awarded May 2023)

Department of Epidemiology, Tulane University School of Public Health and Tropical Medicine

Dissertation: “*Leveraging polygenic risk scores, rare variants, and mitochondrial DNA copy number to enable the precision prevention and treatment of hypertension*”

1. Lei Lou, MS (Expected May 2023)

Computational Drug Design Lab, School of Engineering, University of Georgia

1. Yitang Sun, MS (Expected May 2024)

Department of Genetics, University of Georgia

Masters Student (with thesis)

1. Amelia L. Nierenberg, MPH (2014-2016)

Co-advising with Dr. Tanika Kelly

Department of Epidemiology, Tulane University School of Public Health and Tropical Medicine

Thesis: “*Genetic scores of hypertension and blood pressure salt-sensitivity: The GenSalt study*”

1. Jessica Ho, MPH (2017-2019)

Department of Epidemiology, University of Georgia College of Public Health

Thesis: “*Early-Life Exposure to Severe Famine and Cognitive Function Score in Late Adulthood: The China Health and Retirement Longitudinal Study*”

1. Adrianna Westbrook, MPH (2019-2021)

Department of Epidemiology, University of Georgia College of Public Health

Thesis: “*Impact of Telomere Length on Kidney Function Trajectory*”

1. Xi Cao, MS (Awarded May 2023)

Department of Epidemiology, Tulane University SPHTM

Thesis: “*Dietary ergothioneine intake, genetic susceptibility, and diabetes phenotypes*”

1. Yixi Sun, MS (Expected May 2025)

Department of Epidemiology, Tulane University SPHTM

Masters Student (without thesis)

1. Breanna Martin, Tulane University SPHTM (Expected May 2025)
2. Thi Ha Lin, Tulane University SPHTM (Expected May 2025)
3. Coreen Christopher Frank, Tulane University SPHTM (Expected May 2025)
4. Yunqing Wang, Tulane University SPHTM (2022-2024)
5. Janavi Kathiria, Tulane University SPHTM (2022-2024)
6. Jainika Savani, Tulane University SPHTM (2022-2024)
7. Molin Ji, Tulane University SPHTM (2021-2023)
8. Lily Yeomans, Tulane University SPHTM (2022-2023)
9. Jharna Katara, Tulane University SPHTM (2021-2023)
10. Kevin Spiegel, DVM, MPH (2017-2019)

Department of Epidemiology, University of Georgia College of Public Health

Capstone project: “*The Effective Introduction and Integration of an Integrated Zoonotic Disease Surveillance System Low- and Middle-Income Countries a Literature Review*”

Undergraduate Student

1. William (Harrison) Jones, BS (2017-2019)

Department of Genetics, University of Georgia

Thesis: “*Mendelian Randomization Study of Depression and Alzheimer’s Disease*”

## **Peer-Reviewed Journal Articles**

## (I have published 17 first/co-first author & 22 corresponding author papers.

## Since being an assistant professor in 2016, 13 first/co-first author and 20 corresponding author papers were published. † Mentored student co-author)

**Google Scholar matrix as of July 25, 2024: Citations: 6,113; H-index: 40; i10-index: 103.**

1. Sun Y†, Zhang R, Tian L, Pan Y, Sun X, Huang Z, Fan J, Chen J, Zhang K, Li S, Chen W, Bazzano L, Kelly TN, He J, Bundy JD, **Li C**. Novel Metabolites Associated With Blood Pressure After Dietary Interventions. *Hypertension*, 2024.
2. Sun X, Chen W, Razavi AC, Shi M, Pan Y, **Li C**, Argos M, Layden BT, Daviglus ML, He J, Carmichael OT, Bazzano LA, Kelly TN. Associations of Epigenetic Age Acceleration With CVD Risks Across the Lifespan: The Bogalusa Heart Study. *JACC Basic to Translational Science*, 2024.
3. Guo C, Ge E, Yu M, **Li C**, Lao X, Li S, Glaser J, He Y, Almeida-Silva M, Meng S, Su WC, Zhang J, Lin S, Zhang K. Impact of heat on emergency hospital admissions related to kidney diseases in Texas: Uncovering racial disparities. *Science of the Total Environment*. 2023.
4. Liu T, **Li C**, Zhang R, Millender EF, Miao H, Ormsbee M, Guo J, Westbrook A, Pan Y, Wang J, Kelly TN. A longitudinal study of polygenic score and cognitive function decline considering baseline cognitive function, lifestyle behaviors, and diabetes among middle-aged and older US Adults. *Alzheimer’s Research & Therapy*. 2023.
5. **Li C**\*, Bundy JD\*, Tian L, Zhang R, Chen J, Kelly TN, He J. Examination of serum metabolome altered by dietary carbohydrate, milk protein, and soy protein interventions identified novel metabolites associated with blood pressure: the ProBP trial. *Mol Nutr Food Res*. 2023. 2300044. [\*contribute equally]
6. **Li C**, Pan Y, Zhang R, Huang Z, Li D, Han Y, Larkin C, Rao V, Xun X, Kelly TN. Genomic Innovation in Early Life Cardiovascular Disease Prevention and Treatment. Cir Res. 2023. 132(12):1628-1647.
7. He Y, Martinez L, Ge Y, Feng Y, Chen Y, Tan J, Westbrook A, **Li C**, Cheng W, Ling F, Cheng H, Wu S, Zhong W, Handel A, Huang H, Sun J, Shen Y. Social mixing and network characteristics of COVID-19 patients before and after widespread interventions: A population-based study. Epidemiology & Infection. 2023. 1-38.
8. Pan Y, Sun X, Huang Z, Zhang R, **Li C**, Anderson AH, Lash JP, Kelly TN. Effects of epigenetic age acceleration on kidney function: a Mendelian randomization study. Clin Epigenetics. 2023;15(1): 61.
9. Wei X, Lin B, Huang Y, Yang S, Huang C, Shi L, Liu D, Zhang P, Lin J, Xu B, Guo D, **Li C**, He H, Liu S, Xue Y, Xu Y, Zhang H. Effects of time-restricted eating on nonalcoholic fatty liver disease: The TREATY-FLD Randomized Clinical Trial. *JAMA Network Open*. 2023
10. Li N, Zhang X, Zhang M, Wu L, **Li C**, Pan Y, Wang W, Ji J, Zheng D. Associations of genetically determined lipid traits and lipid-modifying agents with the risk of diabetic retinopathy: A Mendelian randomization study. *Atherosclerosis*. 2023.
11. Zheng M, Wu S, Chen S, Zhang X, Zuo Y, Tong C, Li H, **Li C**, Yang X, Wu L, Wang A, Zheng D. Development and validation of risk prediction models for new-onset type 2 diabetes in adults with impaired fasting glucose. *Diabetes Res Clin Pract*. 2023.
12. Li X, Zhang J, Hou R, Zheng M, Singh M, Li H, **Li C**, Zhang X, Yang X, Wu L, Wang Y, Zheng D. Bidirectional associations of intellectual and social activities with cognitive function among middle-aged and elderly adults in China. *Journal of Affective Disorders*. 2022; 319: 83-89.
13. Wen Y, Liu T, Li S, Gong R, **Li C\***. Trends in the prevalence of metabolically healthy and unhealthy obesity in the US adult population: analysis of eight NHANES cross-sectional survey cycles, 1999-2014. *BMJ Open*. 2022; 12(11): e062651. [\*corresponding author]
14. Shi M, Kelly TN, Zhu Z, **Li C,** Shen C, Sun Y, Wang A, Shan G, Bu X, Guo D, Zhao J, Xu T, Peng H, Xu T, Zhong C, Sun X, Chen J, Zhang Y, He J. Large-scale targeted sequencing study of ischemic stroke in the Han Chinese population. *JAHA*. 2022: e025245.
15. Sun X†, Pan Y, Zhang R, Anda-Duran ID, Huang Z, **Li C**, Shi M, Razavi AC, Bazzano LA, He J, Sofer T, Kelly T. Life course associations between blood pressure-related polygenic risk scores and hypertension in the Bogalusa Heart Study. *Genes*. 2022; 13(8):1473.
16. Zeng B, Yue Y, Liu T, Hyochol Ahn, **Li C**\*. The influence of the BDNF Val66Met variant on the association between physical activity/grip strength and depressive symptoms in persons with diabetes. *Clinical Nursing Research*. 2022. [\*corresponding author]
17. Feng L, Li J, Lv X, Chu S, **Li C**, Zhang R, Cao X, Liang L. Temporal trends in anxiety and depression prevalence and their association with adverse outcomes in patients hospitalized for acute exacerbations of chronic obstructive pulmonary disease in Beijing, China, from 2004 to 2020. *Frontiers in Psychiatry*. 2022.
18. He WJ, **Li C**, Huang Z, Geng S, Rao VS, Kelly TN, Hamm L, Grams ME, Arking DE, Appel LJ, Rebholz CM. Association of mitochondrial DNA copy number with risk of progression of kidney disease. *Clinical Journal of the American Society of Nephrology*. 2022; 17 (7): 966-975.
19. Shi M†, Chen W, Sun X, Bazzano LA, He J, Razavi AC, **Li C**, Qi L, Khera AV, Kelly TN. Association of genome-wide polygenic risk score for body mass index with cardiometabolic health from childhood through midlife. *Circulation: Genomic and Precision Medicine*. 2022;
20. Huang Y, Liu D, Wei X, Huang C, **Li C**, Zhang H. Time-restricted eating on weight loss: Implications of the TREATY study. *Life Medicine*. 2022.
21. Liu T, Li H, Conley YP, Primack BA, Wang J, Lo WJ, **Li C\***. A genome-wide association study of prediabetes status change. *Frontiers in Endocrinology*. [\*corresponding author]
22. Liu D, Huang Y, Huang C, Yang S, Wei X, Zhang P, Guo D, Lin J, Xu B, **Li C**, He H, He J, Liu S, Shi L, Xue Y, Zhang H. Calorie Restriction with or without Time-Restricted Eating in Weight Loss. *New England Journal of Medicine*; 2022; 386 (16): 1495-1504.
23. Shi M†, He J, **Li C**, Lu X, He WJ, Cao J, Chen J, Chen JC, Bazzano LA, Li JX, He H, Gu D, Kelly TN. Metabolomics Study of Blood Pressure Salt-Sensitivity and Hypertension. *Nutrition, Metabolism & Cardiovascular Disease*. 2022.
24. Li Y, Kong Y, Ebell MH, Martinez L, Cai X, Lennon RP, Tarn DM, Mainous AG, Zgierska AE, Barrett B, Tuan WJ, Maloy K, Goyal M, Krist AH, Gal TS, Sung MH, **Li C**, Jin Y, Shen Y. Development and Validation of a Two-Step Predictive Risk Stratification Model for Coronavirus Disease 2019 In-hospital Mortality: A Multicenter Retrospective Cohort Study. *Front. Med.* 2022.
25. Zhang R†, Sun X, Huang Z, Pan Y, Westbrook A, Li S, Bazzano L, Chen W, He J, Kelly T, **Li C**\*. Examination of serum metabolome altered by cigarette smoking identified novel metabolites mediating smoking‐BMI association. *Obesity*. 2022. [\*Corresponding Author]
26. Liang L, **Li C**, Liu X, Zhou L, Chu S, Zhang R, Mai J, Westbrook A, Li J, Zhang D, Zhao L, Wu Y. Lifelong smoking status, weight gain, and subsequent risk of major adverse cardiovascular events: Long-term follow-up of a middle-aged Chinese population. *Obesity*. 2022; 30(3): 762-769.
27. Liu T, Li H, Conley YP, Primack BA, Wang J, **Li C**\*. The Brain-Derived Neurotrophic Factor Functional Polymorphism and Hand Grip Strength Impact the Association between Brain-Derived Neurotrophic Factor Levels and Cognition in Older Adults in the United States. *Biological Research for Nursing*. 2022. [\*Corresponding Author]
28. Westbrook A†, Zhang R, Shi M, Razavi AC, Huang Z, Chen J, He J, Kelly T, Shen Y, **Li C\***. Association Between Baseline Buccal Telomere Length and Progression of Kidney Function: The Health and Retirement Study. *Journal of Gerontology Series A: Biological Research*; 2022. [\*Corresponding Author]
29. Chen X, Duan M, Hou R, Zheng M, Li H, Singh , **Li C**, Liu K, Zhang F, Yang X, Luo Y, He Y, Wu L, and Zheng D. Prevalence of abdominal obesity in Chinese middle-aged and older adults with a normal body mass index and its association with type 2 diabetes mellitus: a nationally representative cohort study from 2011 to 2018. *Diabetes Metab syndr Obes*. 2021; 14: 4829-4841.
30. Cheng Y, Li Y, Smith ML, **Li C**, Shen Y. Analyzing evidence-based falls prevention data with significant missing information using variable selection after multiple imputation. *Journal of Applied Statistics*. 2021; 1-20.
31. Cao X, Tang Z, Zhang Ji H, Singh M, Sun F, Li X, **Li C**, Wang Y, Guo X, Zheng D. Association between high-density lipoprotein cholesterol and type 2 diabetes mellitus among Chinese: the Beijing longitudinal study of aging. *Lipids in Health and Disease*; 2021;20:71.
32. Ge Y, Martinez L,Sun S, Chen Z, Zhang F, Li F, Sun W, Chen E, Pan J, **Li C**, Sun J, Handel A, Ling F, Shen Y. COVID-19 transmission dynamics among close contacts of index patients with COVID-19: A population-based cohort study in Zhejiang province, China. *JAMA Internal Medicine*; 2021.
33. Liu T, Hettish L, Lo WJ, Gray M, **Li C**. FEASibility testing a randomized controlled trial of an exercise program to improve cognition forT2DM patients (the FEAST trial): A study protocol. *Res Nurs Health*. 2021; 1-12.
34. Ge Y, Chen Z, Handel A, Martinez L, Xiao Q, **Li C**, Chen E, Pan J, Li Y, Ling F, Shen Y. The impact of social distancing, contact tracing, and case isolation interventions to suppress the COVID-19 epidemic: A modeling study. *Epidemics*; 2021.
35. Liu Q, Lu P, Shen Y, **Li C**, Wang J, Zhu L, Lu W, Martinex L. Collateral impact of the coronavirus disease 2019 (COVID-19) pandemic on tuberculosis control in Jiangsu Province, China. *Clinical Infectious Disease*; 2021.
36. Liu T, Canon MD, Shen L, Marples, BA, Colton JP, Lo WJ, Gray M, **Li C**\*. The Influence of the BDNF Val66Met Polymorphism on the Association of Regular Physical Activity with Cognition Among Individuals with Diabetes. *Biological Research for Nursing*; 2021. [\*corresponding author]
37. He J, Huang J, **Li C**, Chen J, Lu X, Chen JC, He H, Li JX, Cao J, Chen CS, Bazzano LA, Hu D, Kelly TN, Gu DF. Sodium Sensitivity, Sodium Resistance, and Incidence of Hypertension: A Longitudinal Follow-up Study of Dietary Sodium Intervention. *Hypertension*; 2021;
38. Francis M†, **Li C**, Sun Y, Zhou J, Li X, Brenna JT, Ye K. Genome-wide association study of fish oil supplementation on lipid traits in 81,246 individuals reveals new gene-diet interaction loci. *PloS Genetics*. 2021; 17 (3): e1009431.
39. Cheng W, Pan A, Rathbun SL, Ge Y, Xiao Q, Martinez L, Ling F, Liu S, Wang X, Yu Z, Ebell MH, **Li C**, Handel A, Chen E, Shen Y. Effectiveness of neuraminidase inhibitors to prevent mortality in patients with laboratory-confirmed avian influenza A H7N9. *International Journal of Infectious Diseases*. 2021; 103: 573-578.
40. Wei J, Hou R, Xie L, Chandrasekar EK, Lu H, Wang T, **Li C**, Xu H. Sleep, sedentary activity, physical activity, and cognitive function among older adults: The National Health and Nutrition Examination Survey, 2011–2014. *Journal of Science and Medicine in Sport*. 2021; 24 (2): 189-194.
41. Shen Y, **Li C**, Ling F. Community outbreak investigation of SARS-CoV-2 transmission among bus riders in eastern China—more detailed studies are needed—reply. *JAMA Internal Medicine*. 2021.
42. Liang L, Hua R, Tang S, **Li C\***, Xie W\*. Low-to-Moderate Alcohol Intake Associated with Lower Risk of Incident Depressive Symptoms: A Pooled Analysis of Three Intercontinental Cohort Studies. *Journal of Affective Disorders*. 2021; 286: 49-57. [\*Corresponding Author]
43. Li H, **Li C**\*ξ, Wang A, Qi Y, Feng W, Hou C, Tao L, Liu X, Li X, Wang W, Zheng D, Guo X. Association between social and intellectual activities with cognitive trajectories in Chinese middle-aged and older adults: a nationally representative cohort study. *Alzheimer’s Research & Therapy*. 2020; 12 (115). [\*co-first author; ξcorresponding author]
44. Wang Z, Song J, **Li C**, Li Y, Shen L, Dong B, Zou Z, Ma J. Higher methylation level of the INSR gene mediates the association between prenatal exposure to the Chinese great famine and adulthood waist circumference: The Genomic Research of the Chinese Famine (GRECF) Study. *Scientific Report* 2020.
45. Ge S, Tang X, Wei Z, Dune L, Liu T, **Li C\***. Smoking and cognitive function among middle-aged adults in China: Findings from the China Health and Retirement Longitudinal Study Baseline Survey. *Journal of Addictions Nursing* 2020; 31 (3): E5-E12. [\*Corresponding Author]
46. Shen Y\*, **Li C\***, Dong H, Wang Z, Martinez L, Sun L, Handel A, Chen Z, Chen E, Ebell MH, Wang F, Yi B, Wang H, Wang X, Wang A, Chen B, Qi Y, Liang L, Li Y, Ling F, Chen J, Xu G. Community outbreak investigation of SARS-CoV-2 transmission among bus riders in eastern China. *JAMA Internal Medicine* 2020. [\*contribute equally]
47. Shen Y\*, Xu W\*, **Li C**\*, Handel A, Martinex L, Ling F, Ebell M, Fu X, Pan J, Ren J, Gu W, Chen E. A cluster of COVID-19 infections indicating person-to-person transmission among casual contacts from social gatherings. *Open Forum Infectious Diseases* 2020. [\*contribute equally]
48. Zhang R†, Shen L, Miles T, Shen Y, Cordero J, Qi Y, Liang L, **Li C**. Association of low to moderate alcohol drinking with cognitive functions from middle to older age among US adults. *JAMA Network Open* 2020.
49. Labasangzhu L, Zhang R†, Qi Y, Shen L, Luobu O, Dawa Z, **Li C**\*. The U-shaped association of altitudes with prevalence of hypertension among residents in Tibet, China. *Journal of Human Hypertension* 2020. [\*Corresponding Author]
50. Xu G, Sun N, Li L, Qi W, **Li C**, Zhou M, Chen Z, Han L. Physical Behaviors of 12-15-year-old adolescents in 54 low-and middle-income countries: results from the Global School-based Student Health Survey. *Journal of Global Health* 2020: 10(1).
51. Nierenberg JL, He J, **Li C**, Gu X, Shi M, Razavi AC, Mi X, Li S, Bazzano LA, Anderson AH, He H, Chen W, Guralnik JM, Kinchen JM, Kelly TN. Serum metabolites associate with physical performance among middle-aged adults: Evidence from the Bogalusa Heart Study. Aging 2020.
52. Liang L, **Li C**, Shen Y, Rong H, Jing H, Tong Z. Long-term trends in hospitalization and outcome in adult patients with exacerbation of chronic obstructive pulmonary disease in Beijing, China, from 2008 to 2017. International Journal of Chronic Obstructive Pulmonary Disease 2020; 15:1155-1164.
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## **Doctoral Dissertation**

**Li C.** Exploring the Missing Heritability of Blood Pressure: Genome-wide Association Studies of Novel Blood Pressure Phenotypes. Tulane University. Doctor of Philosophy, 2009.

## **Book Chapters**

**Li C**, Kelly TN. Blood pressure genomics. In: Shah S, Arnett DK, eds. Cardiovascular Genetics and Genomics in Clinical Practice. New York City, NY: Demos Medical Publishing [2015].

## **Conference Paper**

Li F, Song W, **Li C**, Yang A. Non-harmonic analysis based instantaneous heart rate estimation from photoplethysmography. ICASSP 2019; **DOI:** [10.1109/ICASSP.2019.8682369](https://doi.org/10.1109/ICASSP.2019.8682369)

**Editorial, Commentary, and Letters**

1. **Li C**, Kelly TN. Hypertension in India (commentary). J Hypertens 2014; 32:1189-1191. [PMID: 24781507]
2. Karst M, **Li C**. Acupuncture – A Question of Culture. JAMA Network Open 2019; 2(12).
3. Qi Y, **Li C**. What can we learn from Brazil’s Health Care System? The Innovation 2020.
4. Mavani M†, **Li C**. Coronavirus Disease (COVID-19); Lessons learnt from international response and advice to the Georgia government. The Innovation 2020; 1(2).
5. Peng H, Li C, **Li C**. New Biomarkers of Hypertension and Related Vascular Disorders. International Journal of Hypertension 2020.

## **Abstracts and Presentations**

(† Mentored Student co-author.)

1. Cueto J, Kelly TN, He J, **Li C**, Nierenberg JL, Francisco S, Gu X, Boerwinkle E, Coresh J, Selvin E, Yu B, Bazzano LA, Rebholz C, Dorans K. Associations of Metabolites With Glycemic Outcomes Among Bogalusa Heart Study and Atherosclerosis Risk in Communities Study Participants. AHA|EPI Lifestyle Annual Meeting, March 2024; Chicago, IL. Moderated Poster.
2. Pan Y, Sun X, Huang Z, Zhang R, Kirkpatrick B, Aronov A, **Li C**, Kelly TN. Plasma Proteins, Structural Brain Reserve, and Onset of Alzheimer’s Disease: Proteome-Wide Mendelian Randomization. AHA|EPI Lifestyle Annual Meeting, March 2024; Chicago, IL. Poster.
3. Xiao C, Tamura MK, Vlasschaert C, Pan Y, Rao V, Kim DK, Sun X, Huang Z, **Li C,** Taliercio J, Anderson AH, Chen J, Deo R, Bhat Z, Rao P, Xie D, Lash J, He J, Hixson J, Natarajan P, Yaffe K, Kelly TN. Clonal Hematopoiesis of Indeterminate Potential and Cognitive Decline in Chronic Kidney Disease Patients. **AHA**|EPI Lifestyle Annual Meeting, March 2024; Chicago, IL. Moderated Poster.
4. Sun Y, Zhang R, Tian L, Pan Y, Sun X, Huang Z, Fan J, Chen J, Zhang K, Li S, Chen W, Bazzano LA, Kelly TN, He J, Bundy JD, **Li C**. Association of Plasma Inosine with Lipid Profiles in the Bogalusa Heart Study. **AHA**|EPI Lifestyle Annual Meeting, March 2024; Chicago, IL. Moderated Poster.
5. Zhang R, Sun Y, Tian L, Pan Y, Sun X, Huang Z, Fan J, Zhang K, Li S, Bazzano LA, Chen J, Chen W, Kelly TN, He J, Bundy JD, **Li C**. A Comprehensive Investigation of the Effect of Dietary Intervention on Perfluorooctanoic Acid and Perfluorooctane Sulfonate. **AHA**|EPI Lifestyle Annual Meeting, March 2024; Chicago, IL. Moderated Poster.
6. **Li C**, Huang Z, Sun X, Pan Y, Chen J, Kelly TN, Li S, Chen W, Bazzano LA, He J. Serum metabolite signatures for metabolic healthy and unhealthy obesity: the Bogalusa Heart Study. Presented at the AHA Epidemiology and Prevention–Lifestyle and Cardiometabolic Health 2023 Scientific Sessions. March 2023, Boston. **Moderated Poster**.
7. Huang Z, Bazzano LA, Sun X, Zhang R, Rao V, Shi M, Carmichael O, Pan Y, Cao X, Liu Y, Chen W, He J, **Li C**, Kelly TN. Association of Epigenetic Age Acceleration with Cognition in the Bogalusa Heart Study. Presented at the AHA Epidemiology and Prevention–Lifestyle and Cardiometabolic Health 2023 Scientific Sessions. March 2023, Boston. Poster.
8. Zhang R, Sun X, Huang Z, Rao V, Pan Y, Cao X, Liu Y, Li S, Bazzano LA, Chen W, He J, Kelly TN, Li C. Metabolomics analyses identified factors modifying the association of aspirin use with kidney function. Presented at the AHA Epidemiology and Prevention–Lifestyle and Cardiometabolic Health 2023 Scientific Sessions. March 2023, Boston. **Moderated Poster**.
9. **Li C**, Westbrook A, Zhang R, Hamm L, Chen J, He J, Kelly TN. N6-methyladenosine methylation regulatory genes modified the effect of APOL1 risk genotype on progression of chronic kidney disease. Presented at the 2022 ASN Kidney Week. October 2022. Orlando. Poster presentation.
10. **Li C**, Bundy J, Tian L, Zhang R, Chen J, Kelly TN, He J. Novel Metabolites Associated With Blood Pressure During Dietary Protein And Carbohydrate Interventions. Presented at the 2022 Annual meeting of the AHA hypertension session. September 2022, San Diego. **Oral presentation**.
11. Zhang R, Sun X, Huang Z, Pan Y, Westbrook A, Li S, Bazzano LA, Chen W, He J, Kelly TN, Li C. The effect of BMI on Metabolic Traits is Mediated by a Novel Diabetes Marker. Presented at the 2022 Annual Meeting of the AHA EPI|lifestyle Session, May 2022, Chicago. **Moderated poster**.
12. **Li C**, Francis M, Westbrook A, Zhang R, Shen Y, Ye K, Chen J, He J, Kelly TN. Abstract MP08: Whole Exome Sequencing Study Identified A Novel Variant For Kidney Function And Progression Of Chronic Kidney Disease. Presented at the 2021 Annual Meeting of the AHA EPI|lifestyle Session, May 2021, online. **Moderated poster**.
13. Zhang R, Kelly TN, Bazzano LA, Chen W, He J, Li S, **Li C**. Abstract P111: Untargeted Metabolomics Study And Bidirectional Mendelian Randomization Analyses Identified Novel Metabolites Mediating The Effect Of Current Smoking On Body Mass Index. Presented at the 2021 Annual Meeting of the AHA EPI|lifestyle Session, May 2021, online. Poster.
14. He WJ, Kelly TN, **Li C**, Rao VS, Huang Z, Hamm LL, He J, Grams M, Arking DE, Appel LJ, Rebholz CM. Association of Mitochondrial DNA Copy Number with Risk of Progression of Kidney Disease in the Chronic Renal Insufficiency Cohort (CRIC) study.
15. **Li C**, Zhang R, Shen L, Laba S. U-shaped association of altitude with prevalence of hypertension among Tibetan residence. Presented at the 2020 Annual Meeting of the AHA EPI|lifestyle Session, March 2020, Phoenix City, AZ. **Moderated poster**.
16. Shen L, Zhang R, Cordero J, Wang JS, Shen Y, Lou L, Xie ZR, Yin H, Qi Y, Liang L, **Li C**. Genome-wide gene-leptin interaction study identified loci contributing to leptin resistance. Presented at the Annual Meeting of the AHA EPI|lifestyle, March 2020, Phoenix City, AZ. Moderated poster.
17. Dorans KS, He J, Nierenberg JL, Li C, Gu X, Bazzano LA, Kelly TN. Untargeted Metabolomics study of glycemic outcomes among Bogalusa Heart Study participants. Presented at the 2020 Annual Meeting of the AHA EPI|lifestyle Session, March 2020, Phoenix City, AZ. Poster.
18. Razavi AC, Shi M, Bazzano LA, He J, Nierenberg JL, Sun X, Chen W, **Li C**, Fernandez C, Krousel-Wood MA, Whelton SP, Kelly TN. LDL-C genetic risk score predicts hyperlipidemia and modifies lipid trajectory over the life course: the Bogalusa Heart Study. Presented at the 2020 Annual Meeting of the AHA EPI|lifestyle Session, March 2020, Phoenix City, AZ. Oral presentation.
19. He J, Huang JF, Chen J, Chen JC, Lu X, Hu D, He H, Li JX, Cao J, Chen CS, **Li C**, Bazzano LA, Tanika Kelly, Gu D. Sodium sensitivity, sodium resistance, and incidence of hypertension. Presented at the Annual Meeting of the AHA EPI|lifestyle, March 2020, Phoenix City, AZ. Oral presentation.
20. **Li C**, Shen L, Zhang R, Wang JS, Shen Y, Cordero JF, Xie ZR, Lou L, Liang L. Nicotinic Acetylcholine Receptor Genes Contribute to Leptin Resistance. Presented at the 2019 Annual Meeting of the AHA Hypertension Session, September 2019, New Orleans, LA. Oral Presentation.
21. Razavi AC, Fernandez C, Bazzano L, He J, Krousel-Wood MA, Nierenberg J, Shi M, **Li C**, Mi X, Li S, Kinchen J, Whelton SP, Kelly TN. Serum Metabolite 1-Methylhistidine, a Marker of Red Meat and Poultry Consumption, Independently associate with Increases in systolic and Diastolic Blood pressure in Middle-aged adults. Presented at the 2019 Annual Meeting of the AHA Hypertension Session, September 2019, New Orleans, LA. Oral Presentation.
22. Zhang R†, Zhang D, Liu Y, Sun X, Yin Z, Zhao Y, Wang B, Ren Y, Liu X, Liu D, Liu F, Chen X, Liu L, Cheng C, Zhou Q, **Li C**, Hu D, Zhang M. Genetic Polymorphisms of CD36 Associated with Metabolic Syndrome in Chinese Han Population: A Nested Case-Control Study. Presented at the 2019 Annual Meeting of the AHA EPI | Lifestyle Session, March 2019, Houston, TX. Poster.
23. Zhu Z, Kelly TN, Zhang Y, **Li C**, Wang A, Xu T, Sun X, Shi M, Bu X, Chen J, He J. Plasma Homocysteine is Causally Associated with Ischemic Stroke in a Han Chinese Population: A Mendelian Randomization Study. Presented at the 2019 Annual Meeting of the AHA EPI | Lifestyle Session, March 2019, Houston, TX. Moderated Poster.
24. **Li C**, Wang Z, Shen L†, Zhang R†, Shen Y, Wei J, Zou Z. Genome-wide Epigenetic Study of Prenatal Famine Exposure and Blood Lipids in Late Adulthood: the Genomic Research of the Chinese Great Famine (GRECF) Study. Presented at the 2019 Annual Meeting of the AHA EPI | Lifestyle Session, March 2019, Houston, TX. Poster.
25. Nierenberg JL, He J, **Li C**, Gu X, Li S, Bazzano LA, Chen W, Kinchen J, Kelly TN. Novel Serum Metabolites Associated with Grip Strength Among Bogalusa Heart Study Participants. Presented at the 2019 Annual Meeting of the AHA EPI | Lifestyle Session, March 2019, Houston, TX. Poster.
26. Shen L†, **Li C**, Wang Z, Zhang R, Shen Y, Miles T, Wei J, Zou Z. Early-life Exposure to Severe Famine is Associated with Higher Methylation Level in the IGF2 Gene and Higher Total Cholesterol in Late Adulthood: The Genomic Research of the Chinese Great Famine (GRECF) Study. Presented at the 2019 Annual Meeting of the AHA EPI | Lifestyle Session, March 2019, Houston, TX. Poster.
27. Shi M, Zhang Y, **Li C**, Wang A, Xu T, Sun X, Bu X, Chen J, Kelly TN, He J. A Mendelian Randomization Study of Alcohol Intake and Ischemic Stroke in a Han Chinese Population. Presented at the 2019 Annual Meeting of the AHA EPI | Lifestyle Session, March 2019, Houston, TX. Poster.
28. Kelly TN, Zhang Y, **Li C**, Wang A, Xu T, Sun X, Shi M, Bu X, Chen J, He J. A Mendelian Randomization Study of Plasma Homocysteine and Ischemic Stroke in a Han Chinese Population. Presented at the 2019 International Stroke Conference. Poster.
29. Zhang Y, Shi M, **Li C**, Wang A, Xu T, Sun X, Bu X, Chen J, Kelly TN, He J. A Mendelian Randomization Study of Alcohol Intake and Ischemic Stroke in a Han Chinese Population. Presented at the 2019 International Stroke Conference. Poster.
30. **Li C**, Shen L†, Zhang R†, Wang JS, Shen Y, Cordero JF. Nicotinic Acetylcholine Receptor Genes Modify the Association of Serum Leptin and BMI. Presented at the Georgia Clinical and Translational Science Alliance Statewide Conference, February 2019, Pine Mountain, GA. Poster.
31. Shen L†, Zhang R†, Wang JS, Shen Y, Cordero JF, Lou L, Xie ZR, Liang LR, **Li C**. Nicotinic Acetylcholine Receptor Genes Modify the Association of Serum Leptin and Blood Pressure. Presented at the 2019 Georgia Clinical and Translational Science Alliance Statewide Conference, February 2019, Pine Mountain, GA. Poster.
32. Shen L†, Zhang R†, Wang JS, Shen Y, Cordero JF, Lou L, Xie ZR, Liang LR, **Li C**. Nicotinic Acetylcholine Receptor Genes Modify the Association of Serum Leptin and Waist Circumference. Presented at the 2019 Georgia Clinical and Translational Science Alliance Statewide Conference, February 2019, Pine Mountain, GA. Poster.
33. Zhang R†, Shen L†, Miles T, Shen Y, Cordero JF, **Li C**. Alcohol Drinking Related Genes Modify the Association of Serum Leptin and Blood Lipids. Presented at the 2019 Georgia Clinical and Translational Science Alliance Statewide Conference, February 2019, Pine Mountain, GA. Poster.
34. Liu T, **Li C**, Li S. Prevalence of Metabolically Healthy Obesity in US Adult Population: NHANES 1999-2014. Presented at the Annual Meeting of AHA EPI | Lifestyle, March 2018, New Orleans. Poster.
35. Shen L†, Cordero J, Wang JS, Shen Y, **Li C**. Alcohol Consumption Modified the Effect of Leptin on Blood Lipids: A Mendelian Randomization Study. Presented at the 2018 Annual Meeting of the AHA EPI | Lifestyle Session, March 2018, New Orleans. Poster.
36. He W, **Li C**, Mi X, Li S, Bazzano L, Chen W, He J, Kelly T. Serum Metabolites Associate With Blood Pressure Phenotypes in the Bogalusa Heart Study. Presented at the 2018 Annual Meeting of the AHA EPI | Lifestyle Session, March 2018, New Orleans. Poster.
37. Li S, **Li C**, Kelly TN, Gu X, Sun X, Bazzano L, Chen W, Whelton PK, He J. Non-targeted Metabolomics Study Identify Multiple Metabolites Associated With Body Mass Index. Presented at the 2018 Annual Meeting of the AHA EPI | Lifestyle Session, March 2018, New Orleans. Poster.
38. **Li C**, He J, Li S, Chen W, Bazzano L, Sun X, Shen L, Gu X, Kelly TN. Metabolomics Associated With Augmentation Index and Pulse Wave Velocity: Findings From the Bogalusa Heart Study. Presented at the 2018 Annual Meeting of the AHA EPI | Lifestyle Session, March 2018, New Orleans. Moderated Poster.
39. Nierenberg JL, He J, **Li C**, Li S, Bazzano L, Chen W, Kelly TN. Serum Metabolites Associate With Kidney Function Among Bogalusa Heart Study Participants. Presented at the 2018 Annual Meeting of the AHA EPI | Lifestyle Session, March 2018, New Orleans. Moderated Poster.
40. **Li C**, Shen L†. Genome-wide association study of prediabetes progression. Presented at the 2018 Georgia CTSA conference, February 2018, Atlanta, GA. **Oral Presentation**.
41. Shen L†, Cordero J, Wang JS, Shen Y, Li S, **Li C**. Smoking status modified the effect of leptin on blood pressure: a Mendelian randomization study. Presented at the 2018 Georgia CTSA conference, February 2018, Atlanta, GA. Poster.
42. **Li C**, Liu T, Shen L†, Shen Y, Miles T. Associations of ages at menarche and menopause with hypertension among middle-aged and older Chinese women: The China Health and Retirement Longitudinal Study. Presented at the 2018 Georgia CTSA conference, February 2018, Atlanta, GA. Poster.
43. Gillis E†, **Li C**. Assessment of Cognitive Trajectories to Predict Cognitive Status. Presented at the 2018 Georgia CTSA conference, February 2018, Atlanta, GA. Poster.
44. Nierenberg J, **Li C**, He J, Gu D, Hixon JE, Rao DC, Kelly TN. Blood Pressure Genetic Risk Score Predicts Blood Pressure Responses to Dietary Sodium and Potassium Interventions: The GenSalt Study. Presented at the 2017 Annual Meeting of the AHA EPI | Lifestyle Session, March 2017, Portland, OR. Moderated Poster.
45. **Li C**, Li S, Hixon JE. Genes in Genome-wide Association Study-identified Loci and Risk of Atherosclerosis in Adolescents and Young Adults. Presented at the 2017 Annual Meeting of the AHA EPI | Lifestyle Session, March 2017, Portland, OR. Poster.
46. Joshua DB, **Li C**, He J. Impact of Intensive Systolic Blood Pressure Treatment on Cardiovascular Disease and Mortality in the US Population. Presented at the 2017 Annual Meeting of the AHA EPI | Lifestyle Session, March 2017, Portland, OR. Poster.
47. Shen L†, Huang C, **Li C**. The Chinese Great Famine and Major Depression Disorder: The CHARLS study. Presented at the 2017 Annual Meeting of the AHA EPI | Lifestyle Session, March 2017, Portland, OR. Poster.
48. **Li C**, Kelly TN, Zhang D, Shen L†, Chen J, He J. Genome-wide Association Study of Chronic Kidney Disease. Presented at the 2017 Annual Meeting of the AHA EPI | Lifestyle Session, March 2017, Portland, OR. Poster.
49. **Li C**, Zhang YH, Sun YX, Chen J, He J. Blood pressure variation and short- and long-term clinical outcomes among acute ischemic stroke patients: post-hoc analysis of the CATIS trial. Presented at the 2016 Annual Meeting of the AHA Scientific Session, November 2016, New Orleans, LA. Poster Presentation.
50. **Li C**, Zhang YH, Sun YX, Chen J, He J. Blood pressure trajectory and risk of short- and long-term major clinical outcomes among patient with acute ischemic stroke: a post-hoc analysis of CATIS, a randomized controlled trial. Presented at the 2016 Annual Meeting of the AHA Hypertension Council, September 2016, Orlando, FL. **Oral Presentation.**
51. **Li C**, Zhang YH, Sun YX, Chen J, He J. Blood pressure variation and short- and long-term clinical outcomes among acute ischemic stroke patients: post-hoc analysis of the CATIS trial. Circulation 2916; 134:A15874. Presented at the 2016 Annual Meeting of the AHA Scientific Session, November 2016, New Orleans, LA
52. **Li C**. Exposure to the Chinese Famine and Risk for Depressive Symptoms. Presented on the Southern Translational Education and Research Conference, September 2016, UGA. **Oral Presentation.**
53. **Li C**, He J, Hixson JE, Gu D, Rao DC, Shimmin LC, Huang J, Gu CC, Chen JC, Li JX, Chen J, Zhao J, Kelly TN. Abstract P253: Genomewide gene-potassium interaction analyses on blood pressure: the GenSalt study. Circulation 2016; 133:AP253
54. Anderson CE, **Li C**, He J, Gu D, Rao DC, Hixson JE, Shimmin LC, Huang J, Gu C, Chen J, Li J, Kelly TN. Resequencing study identifies Epithelial sodium channel genes and novel low frequency variants associated with blood pressure salt-sensitivity: the GenSalt study. Presented at the 2016 Annual Meeting of AHA/EPI-Lifestyle 2016. March, 2016, Phoenix City, Arizona. P262
55. Anderson CE, **Li C**, He J, Gu D, Rao DC, Hixson JE, Shimmin LC, Huang J, Gu C, Chen J, Li J, Kelly TN. Resequencing study identifies Renin-Angiotensin-Aldosterone System Genes and novel low frequency variants associated with blood pressure salt-sensitivity: the GenSalt study. Presented at the 2016 Annual Meeting of AHA/EPI-Lifestyle 2016. March, 2016, Phoenix City, Arizona. P263
56. **Li C**, Kim YK, Dorajoo R, Li H, Lee IT, Cheng CY, He M, Sheu WH, Guo X, He J, Hixson JE, Rao DC, Chen J, Zhao J, Gu DF, Tai ES, Lin X, Wu JY, Wong TY, Wu T, Chen YI, Rotter JI, Kim BJ, Ganesh SK, Chakravarti A, Kelly TN, AGEN Consortium. Genome-wide association studies meta-analysis on long term average blood pressure among Asian population (PgmNr 588). Presented at the 2015 Annual Meeting of The American Society of Human Genetics, October 6, 2015, Baltimore
57. **C. Li**, J. He, J Chen, J Zhao, D Gu, TN Kelly. Genome-wide Gene-sodium Interaction Analysis: The GenSalt Study. Presented at the Annual Meeting of AHA\EPI-Lifestyle 2015. March 6, 2015, Baltimore, Maryland. **Oral Presentation**
58. **C. Li** & T. Liu. Prevalence and determinants of using complementary medicine in middle-aged and older Chinese population: The CHARLS study. Presented at the Annual Conference of World Federation of Acupuncture-Moxibustion Societies 2014 Houston. November 2, Houston, TX. **Oral presentation**
59. **C. Li**, J. He, J.E. Hixson, D. Gu, D.C. Rao, L.C. Shimmin, J. Huang, C.C. Gu, J. Chen, F. Liu, J. Li, T. Kelly. Gene-based analyses of sympathetic nervous system genes on long term blood pressure: The GenSalt study. Presented at the Annual Meeting of American Society of Human Genetics 2014. October 20, 2014, San Diego, CA. Abstrat#1856T.
60. X. Kong, Q. Zhao, TN. Kelly, **C. Li**, D. Gu, J. He. Transethnic replication of the gene-gene interaction of the prostaglandin E2 system in determining blood pressure reactivity. Presented at the Annual Meeting of American Society of Human Genetics 2014. October 20, 2014, San Diego, CA. Abstrat#2053S.
61. Q. Zhao, X. Kong, TN. Kelly, **C. Li**, D. Gu, J. He. Nervous system-related loci determining sex-difference in blood pressure reactivity to cold stress in both Chinese and Whites. Presented at the Annual Meeting of American Society of Human Genetics 2014. October 20, 2014, San Diego, CA. Abstrat#2093S.
62. Q. Zhao, X. Kong, T. Kelly, **C. Li**, D. Gu, J. He. Nervous system-related loci determine sex difference in blood pressure reactivity to cold stress in both Chinese and Whites. Presented at the NIH Office of Research on Women’s Health 11th Annual Interdisciplinary Women’s Health Research Symposium 2014, November 6, 2014, Bethesda, MD. Abstract#P-79
63. **C. Li**, X. Yang, J. He, J.E. Hixson, D. Gu, D.C. Rao, C.E Jaquish, T.K. Rice, D. Liu, L.C. Shimmin, J. Huang, F. Lu, J. Cao, S. Chong, X. Lu, T.N. Kelly. Single and Joint Associations of Genetic Variants in the Serum/glucocorticoid Regulated Kinase (SGK) Genes with Blood Pressure Response to Sodium Intake: The GenSalt Study. Presented at the Tulane Health Science Research Day 2014, Tulane University, April 2nd – April 3rd, New Orleans, LA. Abstract#A24.
64. **C. Li**, X. Yang, J. He, J.E. Hixson, D. Gu, D.C. Rao, C.E Jaquish, T.K. Rice, D. Liu, L.C. Shimmin, J. Huang, F. Lu, J. Cao, S. Chong, X. Lu, T.N. Kelly. Single and Joint Associations of Genetic Variants in the Serum/glucocorticoid Regulated Kinase (SGK) Genes with Blood Pressure Response to Sodium Intake: The GenSalt Study. Presented at the American Heart Association/Nutrition, Physical Activity and Metabolism (EPI/NPAM) 2014, American Heart Association, March 18-21, San Francisco, CA. Abstract #MP15 (**moderated poster**)
65. **C. Li**, J.E. Hixson, L.C. Shimmin, D.C. Rao, D. Gu, J. He, T.N. Kelly. Genome-wide linkage and positional association study of blood lipid phenotypes: The GenSalt study. Presented at the American Society for Human Genetics Conference 2013, American Society for Human Genetics, October 22-26, Boston, Massachussettes. Abstract #2257T.
66. **C. Li**, F. Jiang, H. Mei. Gender difference of genetic factors and short sleepiness effect on preadolescent adiposity. Presented at the Tulane Health Science Research Day 2012, Tulane University, April 11th – April 12th, New Orleans, LA. Abstract#b42.

## **Invited Presentations**

***National***

1. May 19, 2023. Chicago, IL.

“Discovery of a novel mechanism of diabetes: Revisiting genomic loci for monogenic diabetes in the general population”

Division of endocrinology, University of Illinois at Chicago

1. April 17, 2023. TOPMed meeting

“Population-based Assessment of Risk Alleles for Monogenic Non-insulin Dependent Diabetes Mellitus Disorders in TOPMed”

1. April 13, 2023. Athens, GA.

“Gene-lifestyle interaction on cognition: Toward precision intervention for cognitive impairment”

Department of Epidemiology and Biostatistics, University of Georgia at Athens

1. April 9, 2023. New Orleans, LA.

“Gene-lifestyle interaction on cognition: toward precision intervention for cognitive impairment”

Department of Epidemiology, Tulane University

1. August 26, 2022. Tallahassee, FL.

“The impact of dietary carbohydrate, soy protein, and milk protein supplements on serum metabolome and their subsequent influence on blood pressure: The ProBP trial”

College of Nursing, Florida State University

1. October 21, 2021. Little Rock, AR

“The Chinese Great Famine and Chronic Diseases in Late Adulthood: The Role of Epigenetics”

Department of Epidemiology, University of Arkansas for Medical Science

1. April 22, 2021. New Orleans, LA

“Whole Exome Sequencing Study Identified a Novel Variant for Kidney Function and Progression of Chronic Kidney Disease”

Department of Epidemiology, Tulane University

1. July 20, 2017. New Orleans, LA

“Genome-wide association study of prediabetes progression”

Tulane University School of Public Health and Tropical Medicine

1. May 25, 2017. Augusta, GA

“Genomic Studies of Hypertension”

Augusta University College of Nursing

1. May 8, 2017. Augusta, GA

“Genome-wide Gene-Na/K Interaction Analyses”

Augusta University Georgia Prevention Institute.

1. November 4, 2016. Athens, GA

“Genome-wide Gene-Dietary Sodium and Potassium Interaction Analyses on Blood

Pressure”

Environmental Health Department Seminar

1. September 30, 2016. Athens, GA

“Blood Pressure Trajectory and Risk of Major Clinical Outcomes among Patients with Acute Ischemic Stroke: a Post-hoc Analysis of CATIS, a Randomized Controlled Trial”

Epidemiology Department Seminar, UGA

1. November 17, 2014. New Orleans, LA.

“Exploring the Heritability of Blood Pressure: Genome-wide Analyses of Novel Blood Pressure Phenotypes”

Epidemiology Department Seminar

1. December 2, 2013. New Orleans, LA.

“Genome-Wide Linkage and Positional Association Study of Blood Lipids: The GenSalt Study”

Epidemiology Department Seminar

1. December 15, 2010. Boston, MA.

“Smoking in China: Challenges and Opportunities”

Harvard University School of Public Health

***International***

1. July 22, 2019. Guangzhou, China.

“Observational Epidemiologic Research in Clinical Settings”

Department of Endocrinology, Nanfang Hospital

1. November 29, 2018.

“Epigenetic Study of the Chinese Great Famine and Chronic Diseases”

University of Georgia Institute of Global Health

1. July 19, 2018. Wuxi, China

“Metabolomics Study of Arterial Stiffness”

Wuxi Center for Disease Prevention and Control

1. July 5, 2018. Beijing, China

“Metabolomics Study of Arterial Stiffness”

Capital Medical University School of Public Health

1. July 3, 2018. Ningbo, China

“Metabolomics Study of Arterial Stiffness”

Ningbo University School of Medicine

1. December 26, 2016. Wuhan, China

“Genome-wide association study of chronic kidney disease”

East Lake Forum

1. December 23, 2016. Beijing, China

“Blood Pressure in Acute Phase and Long-term Outcomes among Ischemic Stroke Patients”

Peking University School of Public Health Seminar

1. December 22, 2016. Beijing, China

“Research and How It Connects to Health Communication”

Tsinghua University Institute of Public Health Seminar

1. December 3, 2015. Beijing, China

“Genome-wide analyses of novel blood pressure phenotypes and gene environment interaction analyses”

Peking University Health Science Center Seminar

1. December 12, 2015. Beijing, China

“Genome-wide analyses of novel blood pressure phenotypes and gene environment interaction analyses”

Chaoyang Hospital Seminar

1. November 10, 2010. Atlanta, GA.

“Wuxi Tobacco Free City – Starting From Health Departments: My Summer Experience”

Emory Global Health Institute – China Tobacco Control Partnership

## **Grant History**

**Ongoing Research Support**

1R01DK135873 Li (PI) 04/01/2024 – 03/31/2028

NIH/NIDDK 30% effort

Funding Level: $2,927,812

Role: Principal Investigator

**Project:** The Quality and Quantity of Mitochondrial DNA in Progression of Chronic Kidney Disease

**Objective:** To investigate the role of mitochondrial DNA copy number and heteroplasmy in the progression of chronic kidney disease among participants of the Chronic Renal Insufficiency Cohort.

R21HL161718 Li (PI) 08/01/2022-07/30/2024

NIH/NHLBI 20% effort

Funding Level: $244,014

Role: Principal Investigator

**Project:** Application of a Novel Polygenic Risk Score to the Study of Diabetic Cardiomyopathy in Diverse Populations

**Objective:** To develop a polygenic risk score to predict T2D risk from childhood to midlife and to identify mechanisms underlying diabetes-induced heart failure.

2P20GM109036 He (PI); Li (Project PI) 07/01/22-06/30/2027

NIH/NIGMS 50% effort

Funding Level: $1,313,259

Role: Principal Investigator

**Project:** Metabolomics study of APOL1-associated chronic kidney disease progression

**Objective:** The objective of this research project is to identify urinary metabolites that links the APOL1 risk alleles to chronic kidney disease progression among 1,224 African American patients of the Chronic Renal Insufficiency Cohort.

**Pending**

1R01DK135873 Li (contact PI; mPI: Kelly) 01/01/2025 – 12/31/2029

NIH/NIA 15% effort

Funding Level: $3,500,000

Role: Principal Investigator

**Project:** Epigenetic Mechanisms of Cognitive Decline in Chronic Kidney Disease

**Objective:** To investigate the role of DNA methylation in cognitive decline and brain imaging feature among participants of the Chronic Renal Insufficiency Cohort.

1R01DK136294 Kelly (PI) 04/01/2023 – 03/31/2028

NIH/NIA 5% effort

Funding Level: $3,964,165

**Role:** co-I

**Project:** Epigenetic Age Acceleration in Chronic Kidney Disease Patients

**Objective:** The proposed work aims to investigate and characterize the role of

epigenetic age acceleration in the progression of chronic kidney disease (CKD) and development of cardiovascular disease (CVD) in CKD patients. Knowledge gained from this study may contribute novel insights into the biological pathways underlying common CKD sequelae and help to identify CKD patients at high risk for kidney failure and CVD.

***Note: This application was scored in the 25th percentile and is now under council review.***

**Completed Projects**

5U24DK060990-21 Dember/Anderson (MPI); Li (Project PI) **04/01/22-03/31/2023**

NIH/NIDDK 30% effort

Funding level: $155,092

Role: Principal Investigator

**Project:** Multi-Omics Study of Chronic Kidney Disease (CKD) Progression Using Machine Learning Approach

**Objective:** To use a novel machine learning algorithm to integrate multi-omics data among patients with CKD. The novel algorithm developed by the PI will identify metabolites that mediate or modify the genetic susceptibility to CKD progression.

Pilot Grant PI (Yoshida) 01/01/2023-12/31/2023

Tulane Center of Excellence in Sex-Based Biology & Medicine In kind

Funding level: $15,000

Role: Co-Investigator

**Project:** Leveraging life-course cohorts for sex-based characterization of cardiovascular risk phenotypic subgroups in type 2 diabetes

P20GM109036 He (PI); Li (Pilot Project PI) 07/01/2020 – 05/10/2022

NIH/NIGMS 50% effort

Role: Pilot Project Principal Invesitgator

Funding Level: $99,837

**Project:** Monogenic Diabetes Related Genes and Diabetes Phenotype in the General Population

**Objective:** To examine the impact of previously reported genes/loci for monogenic diabetes on diabetes phenotypes in the general population, discover risk alleles in a multi-ancestry sample, and identify factors modifying effects of the risk alleles.

Seed Grant Liu (PI) 07/01/2020-06/30/2022

Arkansas Biosciences Institute In kind

Funding level: $80,000

Role: Co-Investigator

**Project:** BDNF Val66Met polymorphism, Methylation, and aerobic exercise on cognitive function.

**Objective:** To examine the interplay of BDNF Val66Met polymorphism, BDNF DNA methylation, and aerobic exercise on cognition among individuals with T2DM.

1R15NR019691 Liu (PI) 09/01/2020-05/01/2022

NIH/NINR 5% effort

Role: Co-Investigator

**Funding level: $446,268**

**Project:** Feasibility Testing a Randomized Controlled Trial of an Exercise Program to Improve Cognition for T2DM Patients.

**Objective:** To determine whether regular aerobic exercise can increase plasma BDNF level and subsequently improve cognitive function among diabetes patients.

Junior Faculty Seed grant LI (PI) **07/01/2018–6/30/2019**

**University of Georgia**

**Funding level: $14,982**

**Project: Multi-Omics Study of Common Food Additives’ Impact on Arterial Stiffness**

**Objective: To identify endogenous physiological pathways involved in food additive metabolisms through weighted correlation network analysis (WGCNA) followed by functional enrichment analyses, and to integrate metabolomics and genomics data to identify novel mechanisms for arterial stiffness.**

**UL1TR002378 Georgia CTSA; Li (Pilot Project PI) 07/01/2018–06/30/2019**

**NIH/NCATS 20% effort**

**Funding level: $57,460**

**Role: Pilot project PI**

**Project: Genomic and Gene-Smoking Interaction Studies for Cognition Trajectories and Cognition Changing Rates**

**Objective: To identify novel genomic loci underlying cognitive impairment**

**through genomic and gene-smoking interaction studies for cognition trajectories and cognition changing rate.**

Subcontract Li (PI) **06/30/2017-08/28/2017**

**Tulane University 20% effort**

**Role: PI  
Funding level: $15,000**

**Project: Tulane Contract on Data Analyses for a Genomic Study of Stroke**

**Objective: To perform data management and analyses for a genomic study of stroke.**

5R01HL111249 Borecki/Rao (MPI); Kelly (Site PI) 08/01/2014-12/31/2017

NIH/NHLBI

Role: Analyst

**Project:** A Multi-Ethnic Study of Gene-Lifestyle Interactions in Cardiovascular Traits

**Objectives:** The primary goal of the proposed research is to leverage existing GWAS and Exome Chip data in 25 large multi-ethnic cohorts to discover additional genetic loci for cardiovascular traits by modeling gene-lifestyle interactions, using pleiotropy analysis of correlated traits, and pathway analysis.

11SDG5130026 Kelly (PI) 01/01/2011–12/30/2015

American Heart Association National Scientist Development Grant

Role: Data analyst

**Project:** Family Based Cardiovascular Disease Gene-centric Association Study of Blood Pressure Salt-Sensitivity

**Objective:** To identify common and rare genetic variants that influence blood pressure (BP) responses to dietary salt intake by conducting a genetic association and resequencing study of genes involved in blood pressure regulation.